

## SERVICE BULLETINS

2 011 LCD Option Byte Table  
ASC20110624001.pdf

## FIRMWARE

No current changes as of  
12/29/11

Be sure to check for latest SW updates.

## PARTS (Board Assemblies)

Be sure to check for latest parts updates.

**HELP** : 1-888-751-4086; 1-866-894-0637 (FE)

<http://gspn3.samsungcsportal.com>

### PLUS ONE

<http://my.plus1solutions.net/clientPortals/samsung>

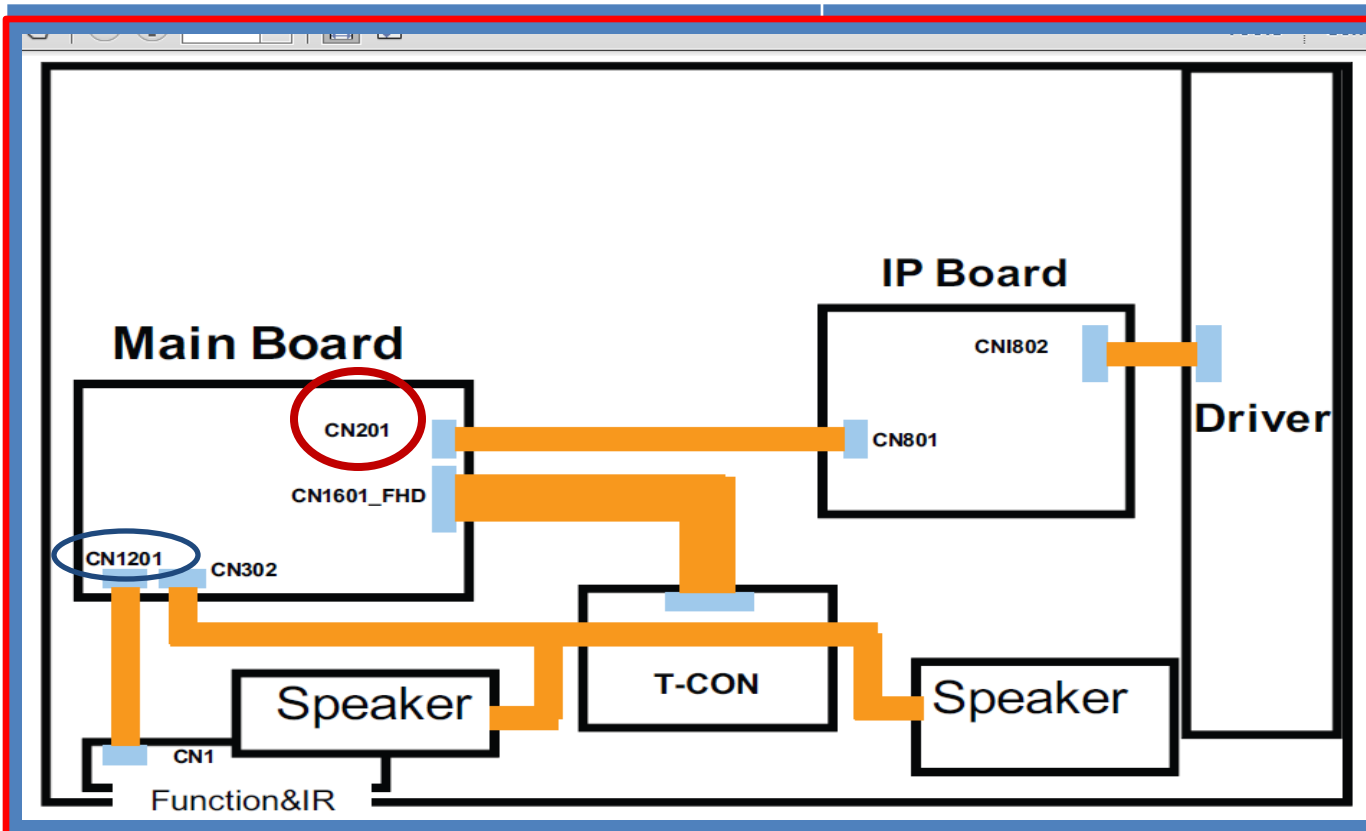
### HOT TIPS

**Power On Problems:** (see page 2)

**Video Problems:** (see pages 3,4)

**TIP** If the unit has a vertical yellow colored line that is one pixel wide in the video, verify that it also affects the OSD. If so, replace the panel. If it does not affect the OSD and is in multiple sources, replace the main board.

Model Code	Side Label	Part No.				
		Panel Module	Inverter	T-Con	Main B'd	Power
LN46D550K1FXZA	HJ02	BN07-00954A	BN81-05898A	BN81-05901A	BN94-04509U	BN44-00441A
	SQ03	BN07-00981A	BN81-05882A	BN81-05877A	BN94-04847E	BN44-00441A



1 CN201 (To Powr board)			
1	B5 V	8	GND
2	SW_POWER	9	B12VS
3	B5 V	10	SW_INVERTER
4	A5 V	11	B13 V
5	GND	12	NC
6	GND	13	B13 V
7	B12VS	14	PWM_DIMM

### Power On Sequence (approximate Voltages)

1. **Standby Voltages:** CN201-4 (5V)
2. **Power On** CN201- 2(0 – 3.5V )
3. **Low Voltage Supplies On** CN201-1,3,7,9, 11, 13 (Volts Listed on CN201)
4. **Back Light On** CN201- 10(0-5V delayed)
5. **Back Light Confirm** CNI802- “0VP” (approx 03 Volts Dim - .1 Volts bright)
6. **Dimming Signal** CN201-14 (1V–4V approx)

### To Force Backlight On without Main Board :

1. Remove Power Cord
2. Remove CN 801
3. Plug Power Cord In.
4. Backlight should be on immediately.

6 CN1201 (FUNCTION)			
1	IR	5	MSDA
2	GND	6	FUNC_INTR
3	A3.3V	7	LED_STB
4	MSCL	8	NC

## TROUBLESHOOTING VIDEO PROBLEMS

### 1. Verify Video Operation

- a. Boot Logo with power on
- b. **Customer Picture Test** in user menu
- c. **"Display"** (If display and Boot Logo & Customer Picture Test is OK the source or cables are first suspected. Then check for a defective input on the Main Board.)
- d. Substitute with known good Source  
(**external DVD or Signal Generator** to check inputs on Main Board)

### 2. Using Test Patterns in Service Mode

- **ENTER SERVICE MODE** -

1. Select an active source signal since Test Pattern may rely on signal source to appear or select TV Source mode.

#### Customer Remote

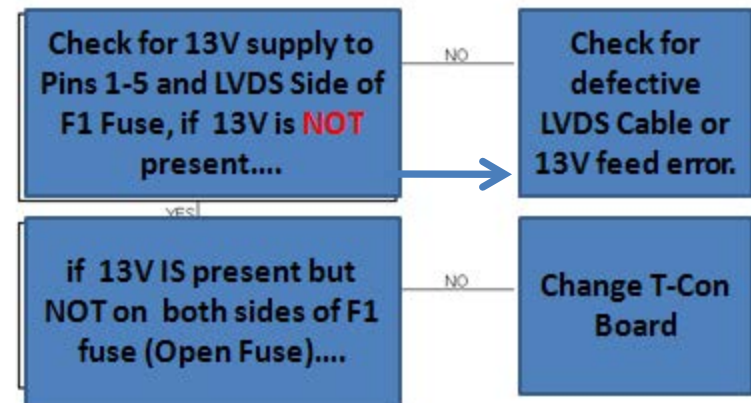
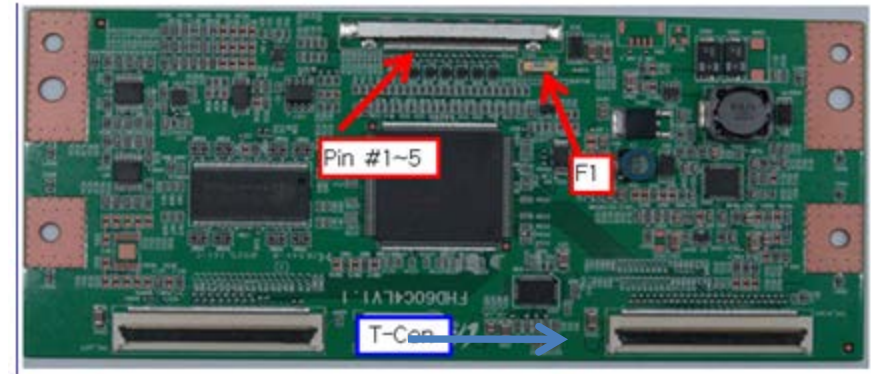
2. Power Standby
3. Mute, 182, Power On

#### Service Remote

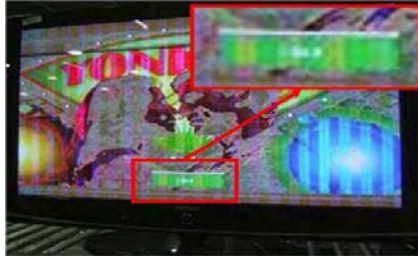
2. Power On
3. Info, Factory

4. Select SVC
5. Select Test Patterns

### T-Con Troubleshooting



## ON SCREEN FAILURE EXAMPLES:



If Picture & Display errors  
Defective Main Board, LVDS,  
or T-CON



Green lines or a green screen  
defective main board , LVDS , or  
T-CON.

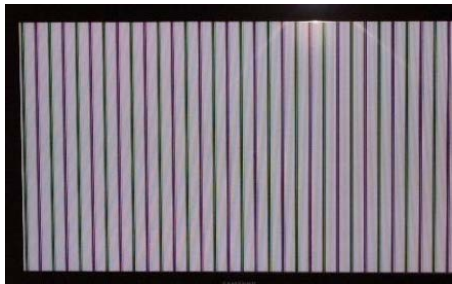


Original Image



Image on Screen

Pixelization can be caused by the main board  
but is more commonly a source error



Vertical or Horizontal Lines :Defective  
Panel likely but also T-CON, LVDS, or Main  
Board. Use Test Patterns in Factory Service  
Mode to determine error)

## ALIGNMENTS:

### 1. Check/Set Option Bytes: in Service Mode

Option	
Control	T - MIST4AUSC - XXX
SVC	T - MIST4AUSC - XXX
Expert	E - Manual: UX5ATSCA-XXXX
ADC / WB	EDID SUCCESS
	HDCP: SUCCESS
	CALIB: AV / COM / PC / HDMI /
	Option: XXXX XXXX XXXX X
	SDAL - XXX
	RFS: P0154 T - TDTSAKSR
	KERNEL MODULE VERSION: "XXXXX_XX"
	20XX -XX - XX
	TYPE: XXXXXX
	MAC Not Available
	FACTORY DATA VER: XXX
	EERC VERSION: XXX
	DTP - AP - COMP - 310 - 01
	DTP - HWG - 0304
	DTP - BP - 0314
	DATE OF PURCHASE: XX / XX / XX

Factory Reset	
Type	50HSHB4
Model	P8550
TUNER	ALPS
Region	US
DDR	SAMSUNG
Light Effect	Off
Inch	50"
Exhibition Mode	Off

Model Code	Front Color						
		Type	Model	Tuner	Region		
LN46D550K1 FXZA	T-R- BLK	46D6AF0C	LD550	SI_ATC			

2. Check/Perform latest Firmware  
Upgrade for all repairs.

3. Perform reset in Service Mode &  
Plug and Play if Main board is replaced.

## SPECIAL NOTES:

Inform customer of reset of all  
Settings if Main Board or Panel is replaced.